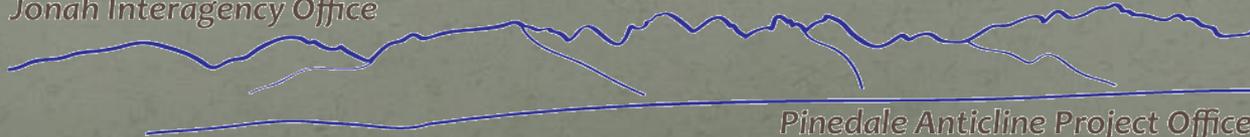


2011-2012 Greater Sage-grouse Annual Report



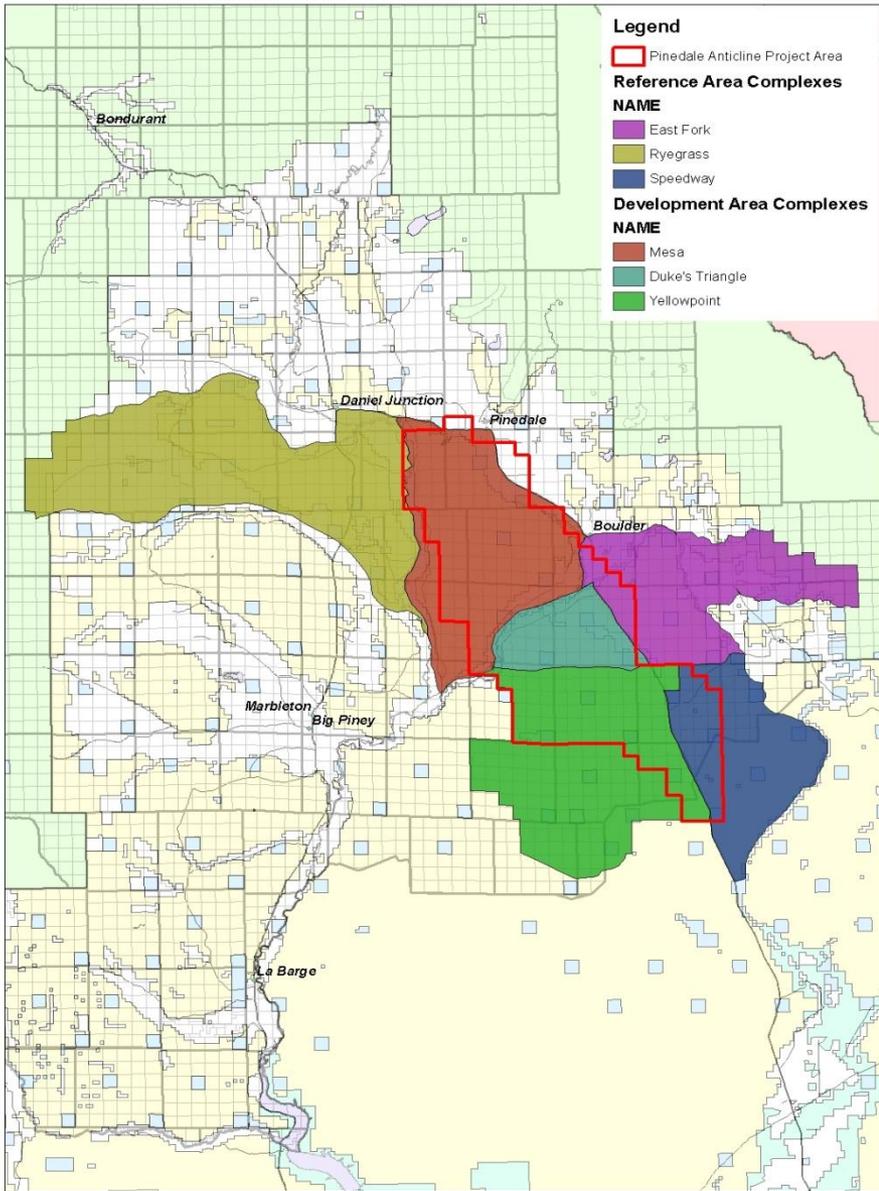
Therese Hartman WGFD/PAPO

Jonah Interagency Office



Pinedale Anticline Project Office

**Pinedale Anticline Project Area
Greater Sage-grouse Monitoring Area Complexes**



PAPA
Sage-grouse
monitoring
Project
Area

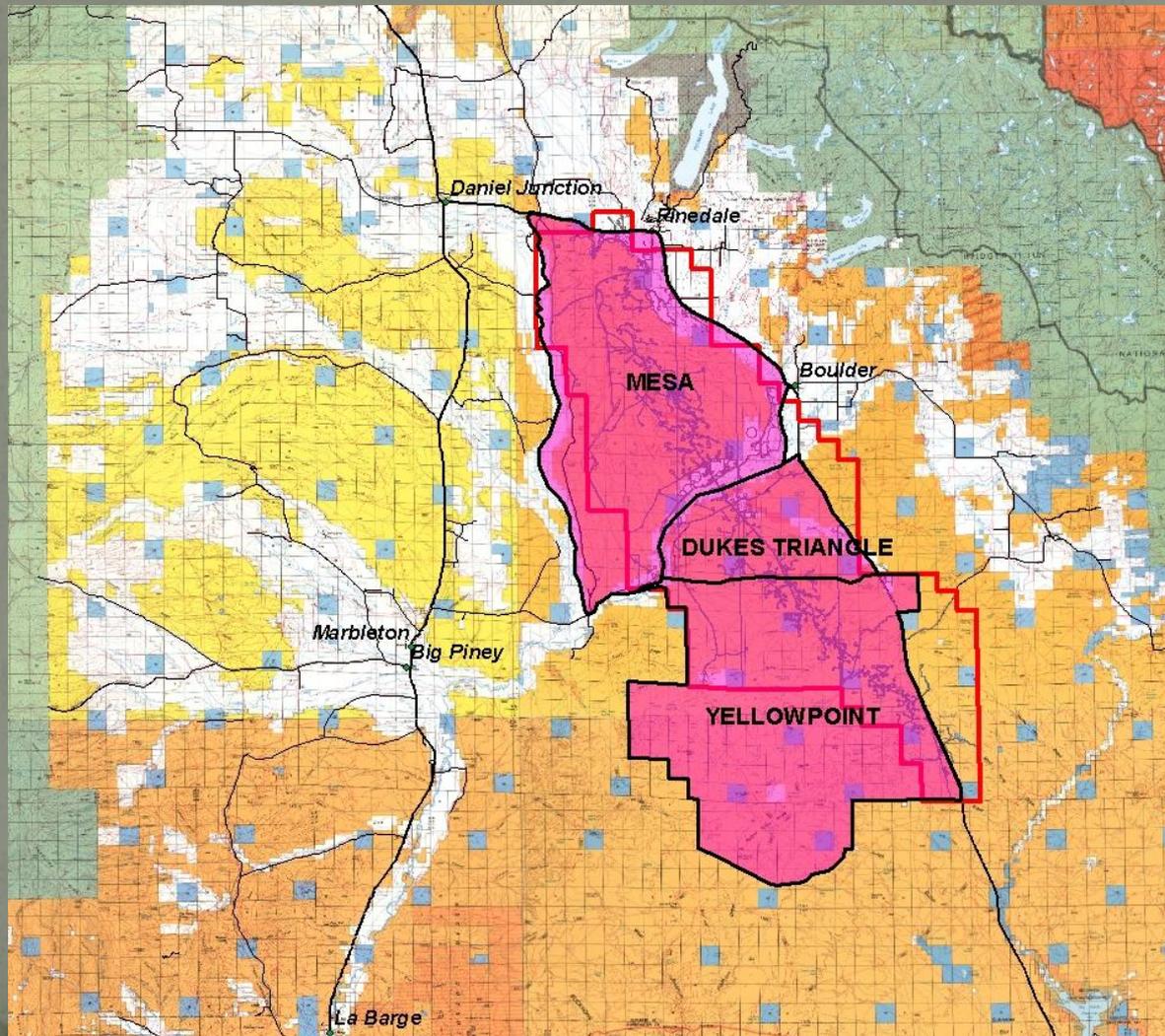
Record of Decision

Wildlife Monitoring and Mitigation Matrix

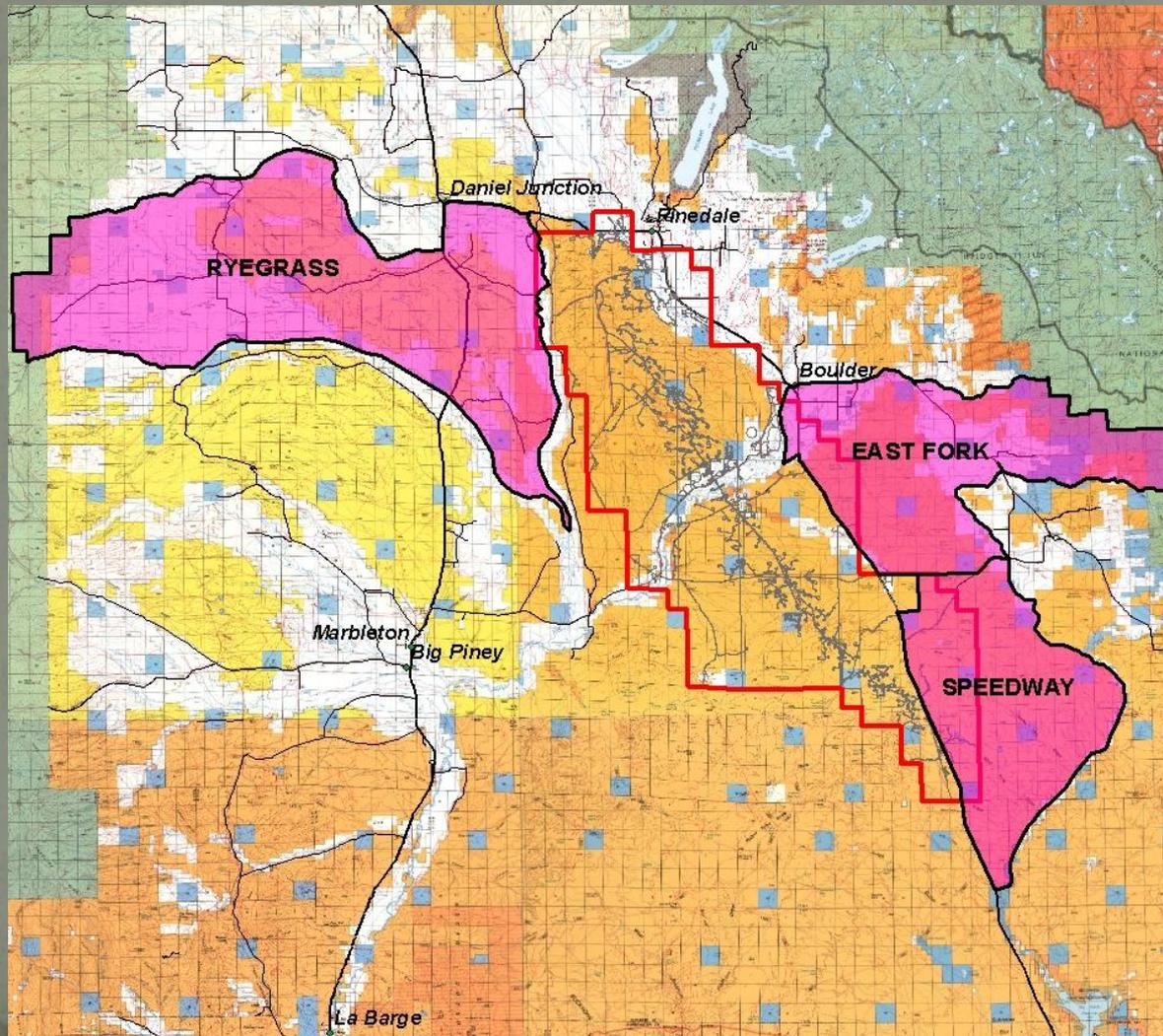
Criteria to be monitored

- Number of active leks in identified lek complexes
 - *Total number of active leks in all treatment complexes combined or*
 - *Number of active leks in a single complex*
- Peak numbers of males attending lek complexes
- Winter concentration area use
- Noise levels

Development Area Complexes



Reference Area Complexes

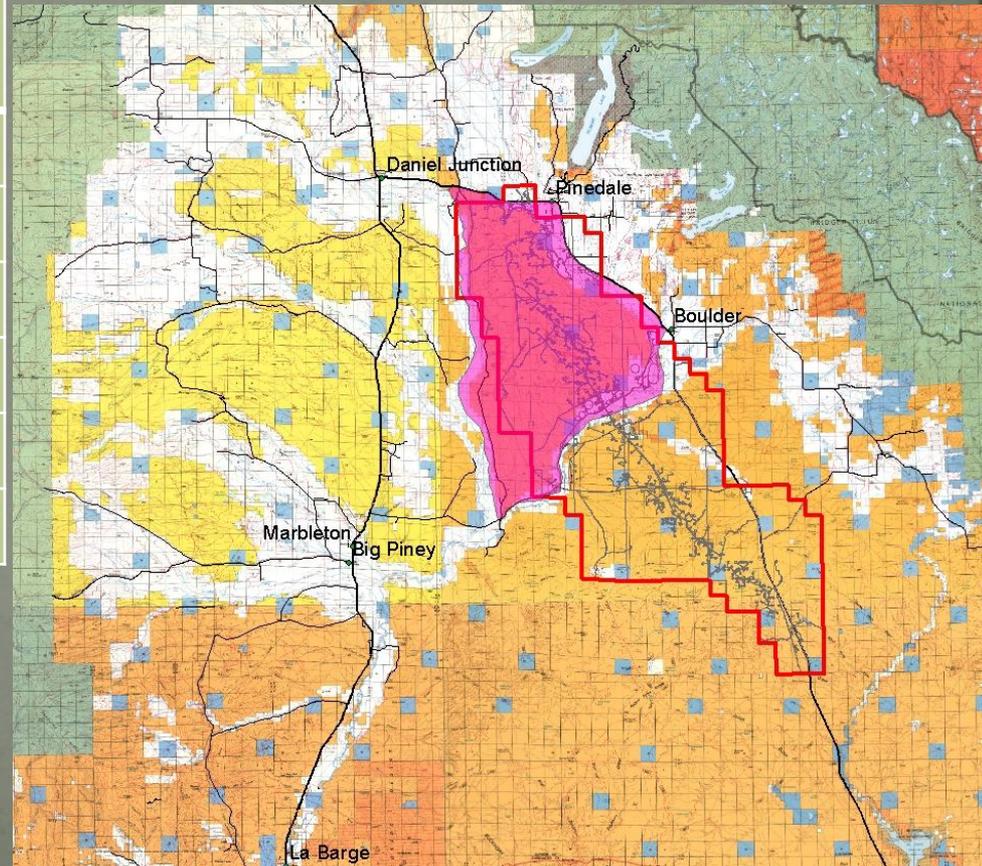


Number of Active Leks in Identified Complexes



Number of Active Leaks Within a Single Complex Mesa

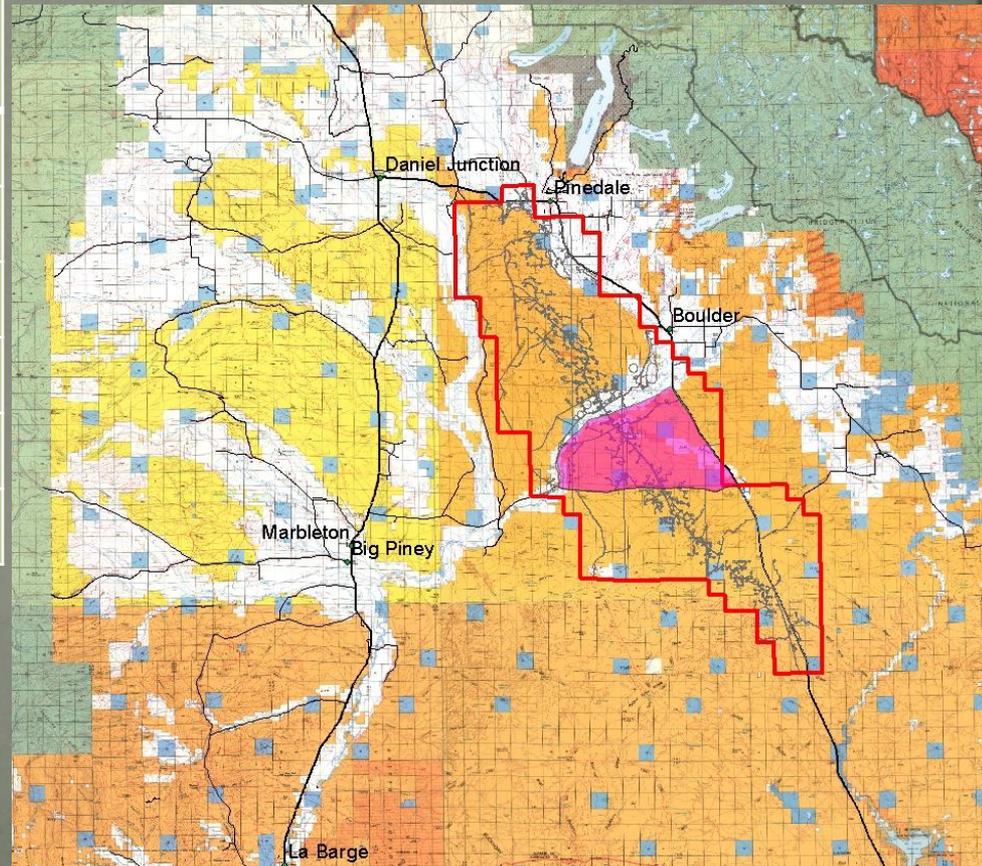
Year	Number of Active Leaks	% CHANGE in active leaks compared to 2007
2007	6	
2008	6	0%
2009	6	0%
2010	6	0%
2011	7	17%
2012	6	0%



Number of Active Leaks Within a Single Complex

Duke's Triangle

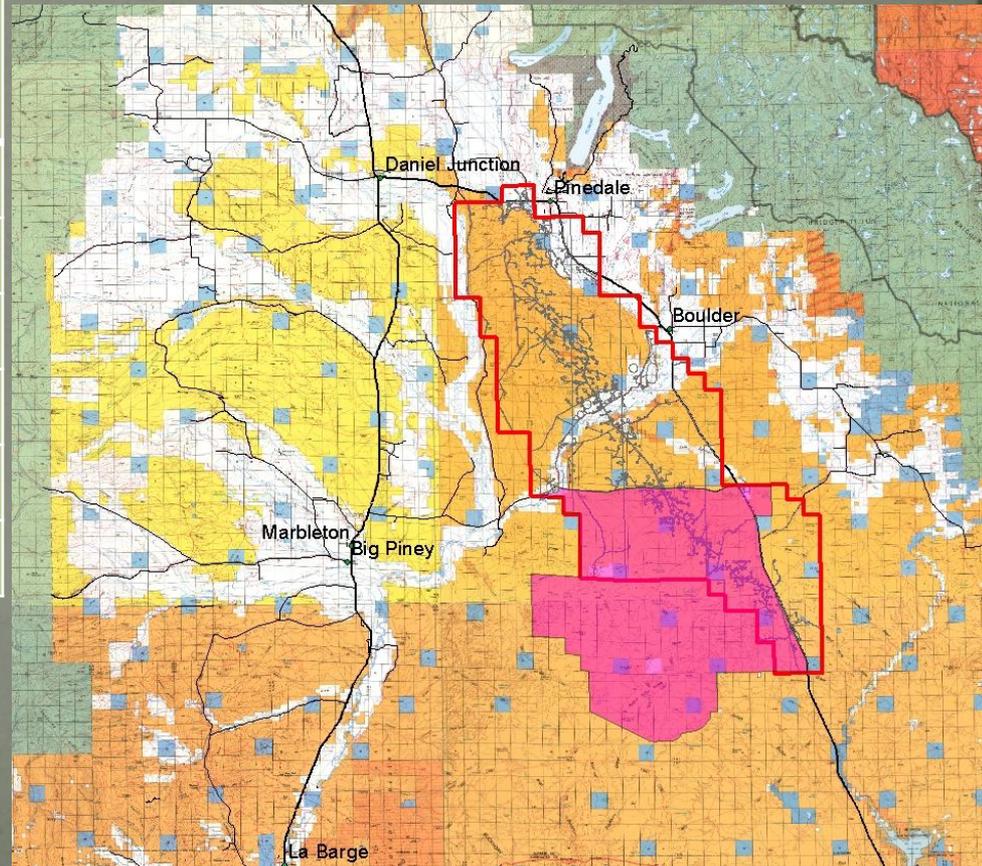
Year	Number of Active Leaks	% CHANGE in active leaks compared to 2007
2007	2	
2008	3	50%
2009	1	-50%
2010	2	0%
2011	2	0%
2012	1	-50%



Number of Active Leaks Within a Single Complex

Yellow Point

Year	Number of Active Leaks	% CHANGE in active leaks compared to 2007
2007	8	
2008	7	-13%
2009	6	-25%
2010	7	-13%
2011	6	-25%
2012	6	-25%

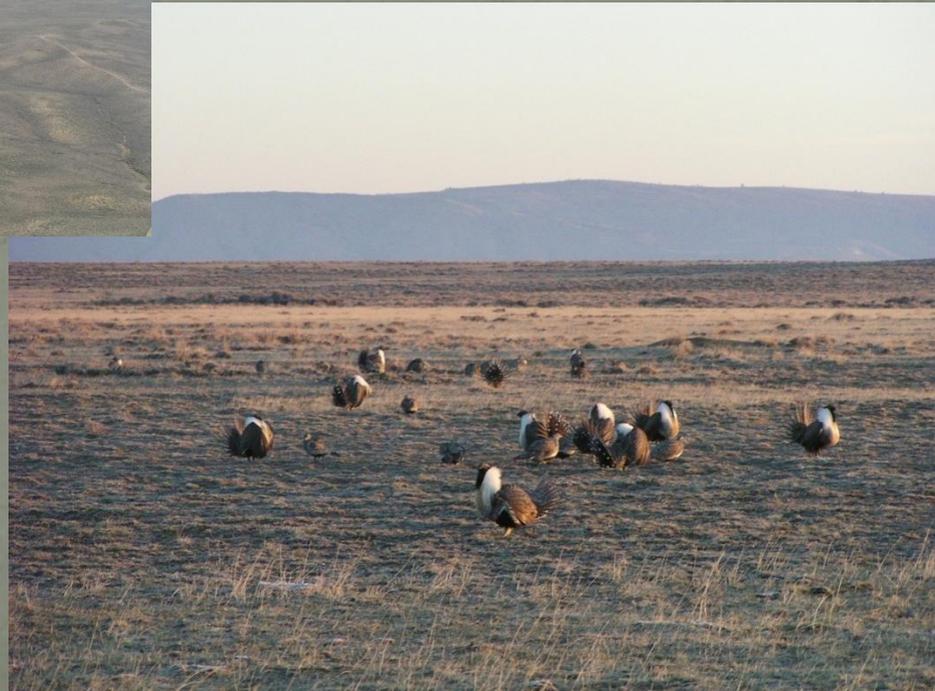


Development Area

Total Number of Active Leaks

Year	Number of Active Leaks	% CHANGE in active leaks compared to 2007
2007	16	
2008	16	0%
2009	13	-19%
2010	15	-6%
2011	15	-6%
2012	13	-19%

New Lek Searches



Peak Number of Males Attending a Lek



Development Area Peak Number Males

Year	Mesa Complex: Annual peak male Lek attendance	Dukes Triangle Complex: Annual peak male Lek attendance	Yellowpoint Complex: Annual peak male Lek attendance	Combined Development Area Complexes: Annual Peak Male Lek Attendance
2007	539	34	286	859
2008	490	38	220	748
2009	438	13	173	624
2010	329	48	167	544
2011	339	27	119	485
2012	296	20	150	466

Development Area Peak Number Males

Year	Mesa Complex: Annual peak male Lek attendance	Dukes Triangle Complex: Annual peak male Lek attendance	Yellowpoint Complex: Annual peak male Lek attendance	Combined Development Area Complexes: Annual Peak Male Lek Attendance
2007	539	34	286	859
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Development Area Running 2-year Average

Years Averaged	Mesa Complex:	Duke's Triangle Complex	Yellowpoint Complex:	Combined: Development Area Complexes - Running 2-year Average Peak Male Lek Attendance
2006-2007	558	31	261	850
2007-2008	515	36	253	804
2008-2009	464	26	197	686
2009-2010	384	31	170	584
2010-2011	334	38	143	515
2011-2012	318	24	135	476

Development Area Peak Number Males Percent Change

Year	Mesa Complex:	Duke's Triangle Complex:	Yellowpoint Complex:	Combined Development Area Complexes
2007	11%	1%	50%	21%
2008	-12%	23%	-16%	-12%
2009	-15%	-64%	-32%	-22%
2010	-29%	-88%	-15%	-21%
2011	-12%	-11%	-30%	-17%
2012	-11%	-47%	5%	-9%

Reference Area Peak Number Males

Year	Ryegrass Complex: Annual peak male Lek attendance	Speedway Complex: Annual peak male Lek attendance	Ryegrass and Speedway Reference Area Complexes (for 2011 – 2012 analysis): Annual Peak Male Lek Attendance
2007	687	934	1621
2008	598	819	1417
2009	726	611	1337
2010	545	467	1012
2011	555	350	905
2012	406	349	755

Reference Area

Running 2-year Average

Years Averaged	Ryegrass Complex:	Speedway Complex:	Ryegrass and Speedway: Reference Area Complexes
2006-2007	572	908	1480
2007-2008	643	877	1519
2008-2009	662	715	1377
2009-2010	636	539	1175
2010-2011	550	409	959
2011-2012	481	350	830

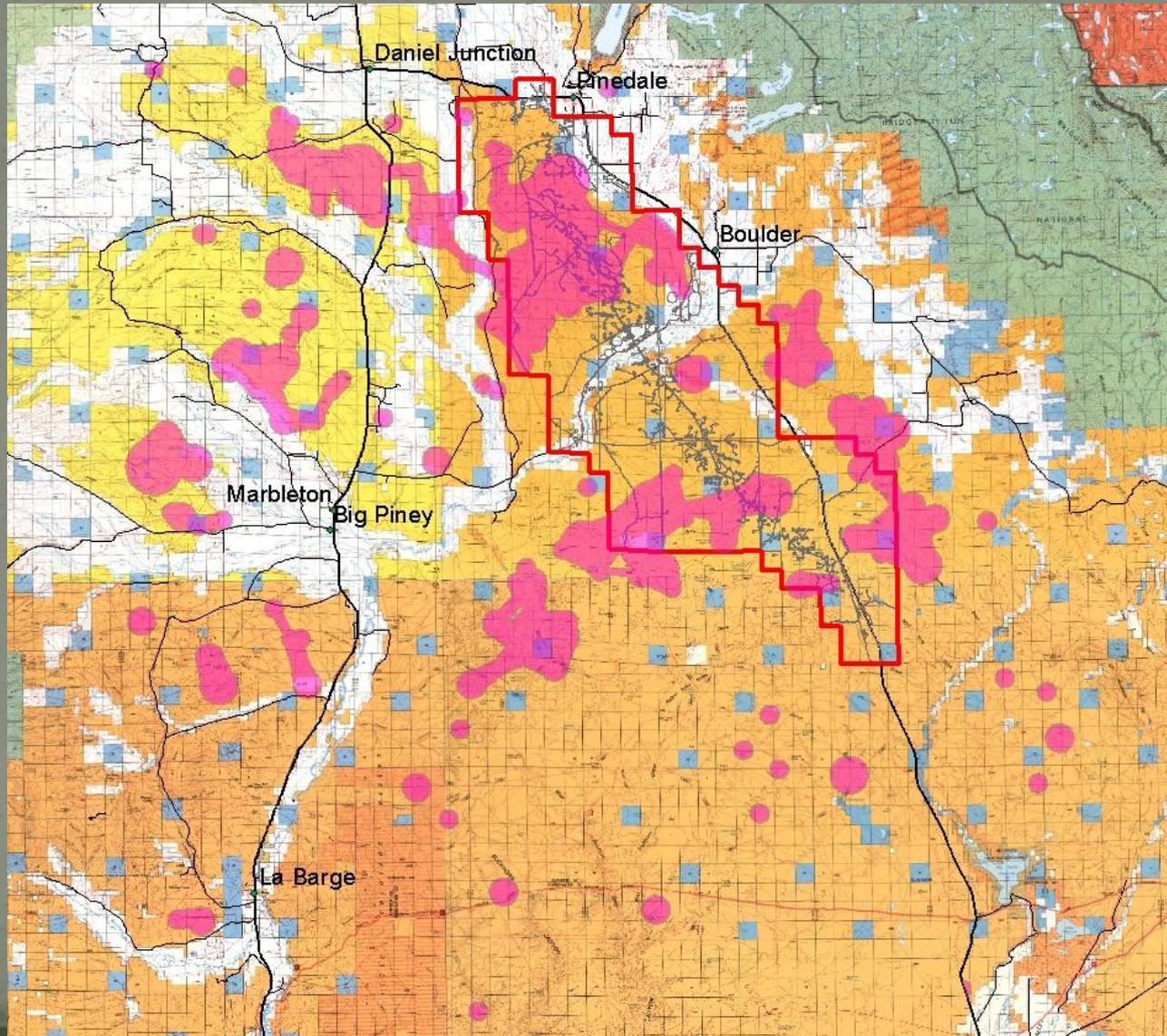
Reference Area Peak Number Males Percent Change

Year	Ryegrass Complex:	Speedway Complex:	Ryegrass and Speedway Reference
2007	66%	19%	35%
2008	5%	-10%	-4%
2009	13%	-30%	-12%
2010	-18%	-35%	-27%
2011	-13%	-35%	-23%
2012	-26%	-15%	-21%

2012 Peak Male Lek Attendance Reference Area Comparison

Development Area	Development Area % Change in male attendance	Reference Area % Change in male attendance	Difference in % Change
Mesa	-11%	-21%	10%
Dukes Triangle	-47%		26%
Yellow point	-5%		16%
Entire Development Area	-9%		12%

Winter Concentration Areas



Noise Monitoring



Jonah Interagency Office

Pinedale Anticline Project Office

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